

Notice of Allowability

Application No.

09/896,380

Examiner

Eleni A. Shiferaw

Applicant(s)

GRAUNKE, GARY L.

Art Unit

2136

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 06/11/2007.
2. ☒ The allowed claim(s) is/are 1-21.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 6/26/07 and 7/2/02.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

NASSER MOAZZAMI
SUPERVISORY PATENT EXAMINER
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DETAILED ACTION

1. The examiner called the applicant on June 26, 2007 requesting another terminal disclaimer (TD) to disclaim patent 7184550, and applicant agreed and filed a TD on 6/27/07. The second TD filed on 6/27/07 is accepted on 7/3/07. The first TD filed on 06/11/2007 to disclaim patent 6985591 is accepted on 6/27/07. The examiner called the applicant, on 7/2/07 to request authorization to cancel paragraph 0043 as shown below, and the applicant authorized the examiner to cancel the last 4 lines of paragraph 0043, to resolve 101 rejection made in the previous office action, the applicant also authorized to amend claim 17 to resolve 112 problem as shown below.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Gordon R Lindeen III on July 2, 2007.

Please replace paragraph 0043 with the following:

[0043] The present invention may be provided as a computer program product that may include a machine-readable medium having stored instructions thereon, which may be

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used to program a computer (or other machine) to perform a process according to the present invention. The machine-readable medium may include, but is not limited to, floppy diskettes, optical disks, CD-ROMs, and magneto-optical disks, ROMs, RAMs, EPROMs, EEPROMs, magnet or optical cards, flash memory, or any other type of medium suitable for storing electronic instructions.

Please amend claim 12 as following:

12. (Currently Amended) ~~An apparatus comprising a tangible~~ A machine-readable medium having stored thereon data representing sequences of instructions which, when executed by a machine, cause the machine to perform operations comprising:

- receiving first and second keys from a key server;
- receiving encrypted Video from a broadcast video source
- generating a first cipher stream based on the a first key for decrypting the encrypted video;
- generating a second cipher stream based on the a second key to re-encrypt the decrypted video;
- simultaneously decrypting and re-encrypting the encrypted Video using a combination of the first and the second cipher streams;
- conveying the re-encrypted video to a display device to be decrypted by the display device using the second key.

Please amend claim 17 as following:

17. (Previously Presented) An apparatus comprising: a content interface to receive encrypted video from a broadcast video source;
- a key interface to receive first and second encryption keys from a key server;
- a computing device to generate a first cipher stream based on the a first key for decrypting the encrypted video, to generate a second cipher stream based on [[a]] the second key to re-encrypt the encrypted video and to simultaneously decrypt and re-encrypt the received encrypted video Using a combination of the first and the second cipher streams;
- and
- a sink interface to convey the re-encrypted video to a display device to be decrypted by the display device using the second key.

Response to Arguments

3. Appellant's arguments on 06/11/2007 are persuasive.

Allowable Subject Matter

4. Claims 1-21 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-21 are allowed, in view of arguments on page 7 filed on 06/11/2007,

Applicants are unable to find any suggestion in Son et al. and Wright et al. simultaneously decrypting and re-encrypting the encrypted video using the combination of the first and second cipher stream wherein each of the first and second cipher streams are generated from a first and second encrypting key.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eleni A. Shiferaw whose telephone number is 571-272-3867. The examiner can normally be reached on Mon-Fri 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser R. Moazzami can be reached on (571) 272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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July 2, 2007

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